

W03049-STL

0053053



ANALYTICAL REPORT

PROJECT NO. 105-F/DR PHASE3

B00-014

Lot #: F0B040242

SDG #: W03049

Accounts Payable

Bechtel Hanford, Inc.

Original received

3/9/2000

Payes
4-4-00

RECEIVED
APR 25 2000

EDMC

SEVERN TRENT LABORATORIES, INC.

MARTI WARD
Project Manager

April 1, 2000

0
PA

Quanterra Incorporated
13715 Rider Trail North
Earth City, Missouri 63045

314 298-8566 Telephone
314 298-8757 Fax

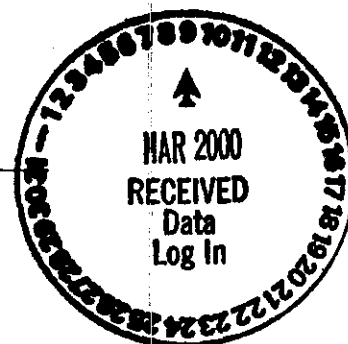
CASE NARRATIVE

Bechtel Hanford Incorporated
3350 George Washington Way
Richland, Washington 99352

March 8, 2000

Attention: Joan Kessner

Quote Number	:	33833
SDG	:	W03049
Number of Samples	:	one (1)
Sample Matrix	:	Water
Data Deliverable	:	Summary
Date SDG Closed	:	February 3, 2000

**II. Introduction**

On February 3, 2000, one (1) "water" sample was received by Quanterra, Richland and transferred to Quanterra, St. Louis for chemical analysis. The samples were received at the St. Louis lab on 2/4/00 at a temperature of 3 degrees C. See the attached Sample Summary for a listing of Client Ids and their associated Lab numbers.

III. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits.

Analyses requested: ICP Metals - (SuperTrace Lead)

Deviation from Request: None

IV. Definitions

The following codes are used to denote laboratory quality control samples and can be found in the data summary section of this report:

QCBLK- Quality Control Blank, Method Blank
QCLCS- Quality Control Laboratory Control Sample, Blank Spike
MS- Matrix Spike.
MSD- Matrix Spike Duplicate.

Bechtel Hanford Incorporated
March 8, 2000
Quote Number: 33833
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V. Comments**General:**

The term "Detection Limit" used in the analytical data reports refers to either the lab's standard reporting limits or contractually required reporting limits, whichever is applicable.

Please refer to the attached cross-reference table for the standard preparation methods used at Quanterra, St. Louis.

The EDD for this SDG will be sent at a later date. The switch to our new LIMs system required a re-programming of the EDD software. That is currently in process.

Metals:

A Laboratory Control Sample, Method Blank, Matrix Spike and Matrix Spike Duplicate were analyzed with each preparation batch per the protocol for this analysis.

There were no comments or non-conformances associated with this data.

I certify that this Summary is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Reviewed and approved:



Marti Ward
St. Louis Project Manager

SAMPLE SUMMARY

F0B040242

WO #	SAMPLE#	CLIENT	SAMPLE ID	DATE	TIME
D886T	001	BOXH85		02/01/00	12:25

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

METHODS SUMMARY

FOB040242

PARAMETER		ANALYTICAL METHOD	PREPARATION METHOD
Trace Inductively Coupled Plasma (ICP)	Metals	SW846 6010B	SW846 3010A

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

STL- St. Louis

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QUANTERRA INCORPORATED
CLIENT ANALYSIS SUMMARY
Quanterra - St. Louis

Run Date: 2/07/00
Time: 8:55:34
User Id.: SEITHELK

CLIENT: 127642 BECHTEL HANFORD, INC.
PROJECT MANAGER: MARTI WARD
PROJECT #: 105-F/DR PHASE3
REPORT TO: Accounts Payable
P.O. NUMBER:
SITE: B00-014
AMOUNT REC'D: 500P
STORAGE LOC: S2D
LOT COMMENTS: Client requires QC, even if a lesser vol
MATRIX: WATER
SAMPLE ID: BOXH85
QC PACKAGE: Special Report - see checklist
SAMPLE COMMENTS:

QUOTE/SAR #: 33833
LAB ID: F-0B040242-001
WORK ORDER: D886T
RECEIVING DATE: 2/03/00
SAMPLING DATE: 2/01/00
ANALYTICAL DUE DATE: 2/18/00N
REPORT DUE DATE: 2/24/00
PRIORITY: 15
SAMPLING TIME: 12:25
RECEIVING TIME: 14:30
SDG# : W03049

Beginning Depth: .00 Ending Depth: .00

***** ANALYSIS *****

WRK	REQUEST	EXTRACTION	ANALYSIS
LOC	DATE	EXP DATE	EXP DATE

Inductively Coupled Plasma (6010B Trace) 06	2/04/00	0/00/00	7/30/00
METALS, TOTAL - Waters			
MT6010_L PB			
(I-05-QM-01) D886T	Protocol: A	QC Program: STANDARD TEST SET	

STL- St. Louis

PSL20300

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QUANTERRA INCORPORATED
CLIENT ANALYSIS SUMMARY
Quanterra - St. Louis

Run Date: 2/07/00

Time: 8:55:34

User ID: SEITHELK

CLIENT: 127642 BECHTEL HANFORD, INC

PROJECT MANAGER: MARTI WARD

PROJECT #: 105-F/DR PHASE3

REPORT TO: Accounts Payable

P.O. NUMBER:

SITE: B00-014

AMOUNT REC'D: 500P

STORAGE LOC: S2D

LOT COMMENTS: Client requires QC, even if a lesser vol

MATRIX: WATER

SAMPLE ID: BOXH85

QC PACKAGE: Special Report - see checklist

SAMPLE COMMENTS:

QUOTE/SAR #: 33833

LAB ID: F-0B040242-001-D

WORK ORDER: D886T MSD

RECEIVING DATE: 2/03/00

SAMPLING DATE: 2/01/00

ANALYTICAL DUE DATE: 2/18/00N

REPORT DUE DATE: 2/24/00

PRIORITY: 15

SAMPLING TIME: 12:25

RECEIVING TIME: 14:30

SDG#: W03043

Beginning Depth: .00 Ending Depth: .00

***** ANALYSIS *****

WRK	REQUEST	EXTRACTION	ANALYSIS
LOC	DATE	EXP DATE	EXP DATE

Inductively Coupled Plasma (6010B Trace)	06	2/04/00	0/00/00	7/30/00
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METALS, TOTAL - Waters

MT6010_L PB

(I-05-QM-01) D886T

Protocol: A

QC Program: STANDARD TEST SET

STL- St. Louis

PSL20300
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QUANTERRA INCORPORATED
CLIENT ANALYSIS SUMMARY
Quanterra - St. Louis

Run Date: 2/07/00
Time: 8:55:34
User Id.: SEITHELK

CLIENT: 127642 BECHTEL HANFORD, INC.
PROJECT MANAGER: MARTI WARD
PROJECT #: 105-F/DR PHASE3
REPORT TO: Accounts Payable
P.O. NUMBER:

SITE: B00-014

AMOUNT REC'D: 500P

STORAGE LOC: S2D

LOT COMMENTS: Client requires QC, even if a lesser vol

MATRIX: WATER

SAMPLE ID: BOXH85

QC PACKAGE: Special Report - see checklist

SAMPLE COMMENTS:

QUOTE/SAR #: 33833

LAB ID: F-0B040242-001-S

WORK ORDER: D886T MS

RECEIVING DATE: 2/03/00

SAMPLING DATE: 2/01/00

ANALYTICAL DUE DATE: 2/18/00N

REPORT DUE DATE: 2/24/00

PRIORITY: 15

SAMPLING TIME: 12:25

RECEIVING TIME: 14:30

SDG# : W03049

Beginning Depth: .00 Ending Depth: .00

***** ANALYSIS *****

WRK	REQUEST	EXTRACTION	ANALYSIS
LOC	DATE	EXP DATE	EXP DATE

Inductively Coupled Plasma (6010B Trace) 06	2/04/00	0/00/00	7/30/00
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METALS, TOTAL - Waters

MT6010 L PB

(I-05-QM-01) D886T Protocol: A QC Program: STANDARD TEST SET

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				B00-014-05		Page 1 of 1		
Collector Fahlberg/Winterrose		Company Contact J Adler		Telephone No. 373-4316		Project Coordinator TRENT, SJ		Price Code 7L Data Turnaround 21 Days		
Project Designation 105-F/DR Phase III Below-grade Areas Sampling and Analy		Sampling Location 105F		SAF No. B00-014		Air Quality				
Ice Chest No.		Field Logbook No. EL 1424		COA 105F22R70		Method of Shipment Fed Ex				
Shipped To Quanterra Incorporated		Offsite Property No.		BHI of Lading/Air Bill No.						
POSSIBLE SAMPLE HAZARDS/REMARKS		Preservation		None	HNO ₃ to pH <2	HCl to pH <2	HNO ₃ to pH <2			
		Type of Container		P	P	P	P			
		No. of Container(s)		1	1	1	1			
		Special Handling and/or Storage		Volume	20mL	500mL	1000mL	1000mL		
SAMPLE ANALYSIS <i>SDG W03049</i>				Activity Scan	KCP Metals - 6010A (Supertrace) (Lead): 7470 - (CV)	Technetium-99	See item (1) in Special Instructions			
Sample No.	Matrix *	Sample Date	Sample Time							
B0X1485	Water	2-1-00	12:25	X	X	X	X			
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS				Matrix *		
Relinquished By <i>R. Fally</i>		Date/Time 1/4/35		Received By <i>R. F. 2-A</i>		Date/Time 2-1-00		(1) Gamma Spectroscopy (Water) [Cobalt-60]; Gamma Spec - Add-on [Barium-133]; Isotopic Plutonium; Strontium-89,90 - Total Sr; Americium-241; Carbon-14; Nickel-63 <i>Sample originated from a non rad source, no activity report required</i> <i>SD</i>		S= Soil SE= Sediment SC= Solid S= Sludge W= Water I= Ice A= Air DS= Drums Solids DM= Drums Liquids T= Tissue W= Wipe L= Liquid V= Vegetation O= Other
Relinquished By <i>R. F. 2-A</i>		Date/Time 2-3-00/0900		Received By <i>R. T. 10A</i>		Date/Time 2-3-00/0900				
Relinquished By <i>P. K. K. 10A</i>		Date/Time 2-3-00/1430		Received By <i>Keith Fahlberg</i>		Date/Time 2-3-00/1430				
Relinquished By <i>Keith Fahlberg</i>		Date/Time 2-3-00/1445		Received By <i>Keith Fahlberg</i>		Date/Time 2-4-00/850				
Relinquished By <i>Keith Fahlberg</i>		Date/Time 2-3-00/1445		Received By <i>Keith Fahlberg</i>		Date/Time 8:40				
Relinquished By		Date/Time		Received By		Date/Time				
LABORATORY SECTION		Received By		Title		Date/Time				
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time				

020768

Login No.: FOB040242

W03049

Condition Upon Receipt Variance Report
St. Louis Laboratory

Client: Bechtel
Project No: 33833
Shipper/No: Quinn 4012614410

Date: 2-4-00 Time: 8:40
Initiated by: SWM/SR
RFA/COC Numbers: 500-04-05

Condition/Variance (Check all that apply):

1. <input type="checkbox"/> Sample received broken/leaking.	8. <input type="checkbox"/> Sample ID on container does not match sample ID on paperwork. Explain: _____
2. <input type="checkbox"/> Sample received without proper preservative. <input type="checkbox"/> Cooler temperature not within 4°C ± 2°C Record temperature: _____ <input type="checkbox"/> pH _____ <input type="checkbox"/> other: _____	9. <input type="checkbox"/> All coolers on airbill not received with shipment.
3. <input type="checkbox"/> Sample received in improper container.	10. <input type="checkbox"/> Other (explain below): _____
4. <input type="checkbox"/> Sample received without proper paperwork. Explain: _____	
5. <input type="checkbox"/> Paperwork received without sample.	
6. <input type="checkbox"/> No sample ID on sample container.	
7. <input type="checkbox"/> Custody tape disturbed/broken/missing.	

☐ No variances were noted during sample receipt.

Cooler Temperature Upon Receipt: 5°

Temperature Variance Does Not Affect the Following Analyses:

Notes: Rec'd. 1x250g broken, TOX, BAX250.
All others 100% full MW 2.5.00

Corrective Action:

☐ Client's Name: _____ Informed verbally on: _____ By: _____
☐ Client's Name: _____ Informed in writing on: _____ By: _____
☐ Sample(s) processed "as is".
☐ Comments: _____
☐ Sample(s) on hold until: _____ If released, notify: _____

Sample Control Supervisor Review: (or designate) SWM/SR Date: 2-4-00

Project Management Review: MWand Date: 2.5.00

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SL-ADMIN-0004, Revised 12/12/98

BECHTEL HANFORD, INC.

Client Sample ID: B0XH85

TOTAL Metals

Lot-Sample #....: F0B040242-001

Date Sampled....: 02/01/00

Date Received...: 02/03/00

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 0049264						
Lead	ND	3.0	ug/L	SW846 6010B	02/18/00	D886T101
		Dilution Factor: 1		MDL.....: 0.60		
Chromium	ND	5.0	ug/L	SW846 6010B	02/18/00	D886T104
		Dilution Factor: 1		MDL.....: 2.0		